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A recording medium manufacturing method has a surface treatment process which removes contamination from a surface of a thermoplastic resin support substrate and also improves its wettability. This surface treatment process is conducted prior to forming the layer structure, which includes at least a signal recording layer, onto the surface of the thermoplastic resin support substance. The support substance is placed in an active gas atmosphere, such as ozone, followed by an inert gas atmosphere, such as nitrogen. This surface treatment process generates little deterioration in the support substrate surface.

[illegible]